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L1 ANSWER 1 OF 1 WPINDEX COPYRIGHT 2003 THOMSON DERWENT on STN  
ACCESSION NUMBER: 1991-376558 [51] WPINDEX  
DOC. NO. CPI: C1991-162398  
TITLE: Foaming of thermoplastic elastomer blends of  
polypropylene and rubber - by heating, mixing with water  
under pressure and releasing.  
DERWENT CLASS: A18 A21 A88  
INVENTOR(S): DUMBAULD, G L  
PATENT ASSIGNEE(S): (ADEL-N) ADVANCED ELASTOMER SYSTEMS LP; (ADEL-N) ADV  
ELASTOMER SYST  
COUNTRY COUNT: 19  
PATENT INFORMATION:

| PATENT NO                                    | KIND | DATE     | WEEK      | LA | PG | MAIN       | IPC |
|--|------|----------|-----------|----|----|------------|-----|
| US 5070111                                   | A    | 19911203 | (199151)* |    |    |            |     |
| EP 503220                                    | A1   | 19920916 | (199238)  | EN | 6  | C08J009-12 |     |
| R: AT BE CH DE DK ES FR GB GR IT LI LU NL SE |      |          |           |    |    |            |     |
| CA 2052846                                   | A    | 19920914 | (199249)  |    |    | C08L021-00 |     |
| JP 06073222                                  | A    | 19940315 | (199415)  |    | 4  | C08J009-12 | <-- |
| TW 254954                                    | A    | 19950821 | (199543)  |    |    | C08J009-12 |     |
| KR 9403369                                   | B1   | 19940421 | (199605)  |    |    | C08J009-12 |     |
| EP 503220                                    | B1   | 19960717 | (199633)  | EN | 6  | C08J009-12 |     |
| R: AT BE CH DE DK ES FR GB GR IT LI LU NL SE |      |          |           |    |    |            |     |
| DE 69120929                                  | E    | 19960822 | (199639)  |    |    | C08J009-12 |     |
| ES 2090294                                   | T3   | 19961016 | (199647)  |    |    | C08J009-12 |     |
| JP 2855009                                   | B2   | 19990210 | (199911)  |    | 4  | C08J009-12 |     |
| CA 2052846                                   | C    | 20000620 | (200043)  | EN |    | C08L021-00 |     |

APPLICATION DETAILS:

| PATENT NO   | KIND | APPLICATION     | DATE     |
|-------------|------|-----------------|----------|
| US 5070111  | A    | US 1991-668561  | 19910313 |
| EP 503220   | A1   | EP 1991-870154  | 19911003 |
| CA 2052846  | A    | CA 1991-2052846 | 19911004 |
| JP 06073222 | A    | JP 1991-258060  | 19911004 |
| TW 254954   | A    | TW 1991-107821  | 19911004 |
| KR 9403369  | B1   | KR 1991-17440   | 19911004 |
| EP 503220   | B1   | EP 1991-870154  | 19911003 |
| DE 69120929 | E    | DE 1991-620929  | 19911003 |
|             |      | EP 1991-870154  | 19911003 |
| ES 2090294  | T3   | EP 1991-870154  | 19911003 |
| JP 2855009  | B2   | JP 1991-258060  | 19911004 |
| CA 2052846  | C    | CA 1991-2052846 | 19911004 |

FILING DETAILS:

| PATENT NO   | KIND              | PATENT NO   |
|-------------|-------------------|-------------|
| DE 69120929 | E Based on        | EP 503220   |
| ES 2090294  | T3 Based on       | EP 503220   |
| JP 2855009  | B2 Previous Publ. | JP 06073222 |

PRIORITY APPLN. INFO: US 1991-668561 19910313

INT. PATENT CLASSIF.:

MAIN: C08J009-12; C08L021-00  
SECONDARY: C08J009-06  
INDEX: C08L007:00, C08L009:00; C08L023:10

BASIC ABSTRACT:

US 5070111 A UPAB: 19930928

Foaming a thermoplastic elastomer compsn. (1) comprises (a) heating (1) above the m.pt. of the plastic, (b) mixing 0.1-10 wt. % of H2O as foaming agent under pressure, and (c) releasing the mixt. to atmospheric pressure. Compsn. (1) consists of a blend of (i) crystalline 1-4C alpha olefin polymer (10-90 pts. wt.) and (ii) rubber (90-10 pts. wt.). The prefd. amt. of (b) is sufficient to achieve a density redn. of the foam produced of from 10-70% of that of the compsn.

USE/ADVANTAGE - The foamed thermoplastic elastomer can be used as gaskets or sealing strips, the mixt. can be injected into a mould to produce a foamed thermoplastic part. The foam has good cell structure, low density and a high % of closed cells. (3pp Dwg.No.0/0)

FILE SEGMENT: CPI

FIELD AVAILABILITY: AB

MANUAL CODES: CPI: A04-G01C; A07-A02; A08-B04; A11-B06; A12-S04A2